

GeoEngineering, Inc.

Consultants in Groundwater Control

October 23, 1987

100 Ford Rd. Denville, N.J. 07834 (201) 625 0700

Day International
333 West First Street
Dayton, OH 45402-3042

ATTN: Denis Daly

SUBJ: L.E. Carpenter, Wharton, NJ
1986 Administrative Consent Order
July through September 1987 Progress Report

Gentlemen:

Per Paragraph 35 of the 1986 Administrative Consent Order between L.E. Carpenter & Company and the NJDEP, the following progress report is submitted detailing the status of activities at the L.E. Carpenter, Wharton facility.

AUTO-SKIMMER solvent recovery activities resumed in late July for a brief period until the leak in the oil-water separator tank recurred. No solvent was removed during this quarter and the total volume of solvent removed remained at 3851.5 gallons as reported in the previous quarterly progress report.

As stated in the quarterly report dated July 17, 1987, GeoEngineering submitted a proposal to L.E. Carpenter on June 22, 1987 suggesting the cessation of AUTO-SKIMMER operations and the installation of a multi-point skimming, groundwater depression, product recovery system. The NJDEP also received a copy of the proposal. As of this writing, the proposal is under consideration.

Attached are figures depicting piezometric water level contours, the top of floating product elevation and isopachs of product thickness for the months of July, August and September 1987. A summary table for elevations of ground water and floating product and for product thickness precedes each month's figures.

On August 29, 1987, groundwater samples were collected at the five designated monitor wells. Enseco-Erco Laboratory of Cambridge, Massachusetts, was contracted for the analytical work. The test results and laboratory QA/QC documentation are attached.



Should you have any questions or comments, we are available for discussion at your convenience.

Sincerely,

GEOENGINEERING, INC.



William W. Dunnell IV
Project Manager

WWD/avm
Enclosure
cc T. Schwartz (5)

Table A
Solvent Thickness and Piezometric Elevations

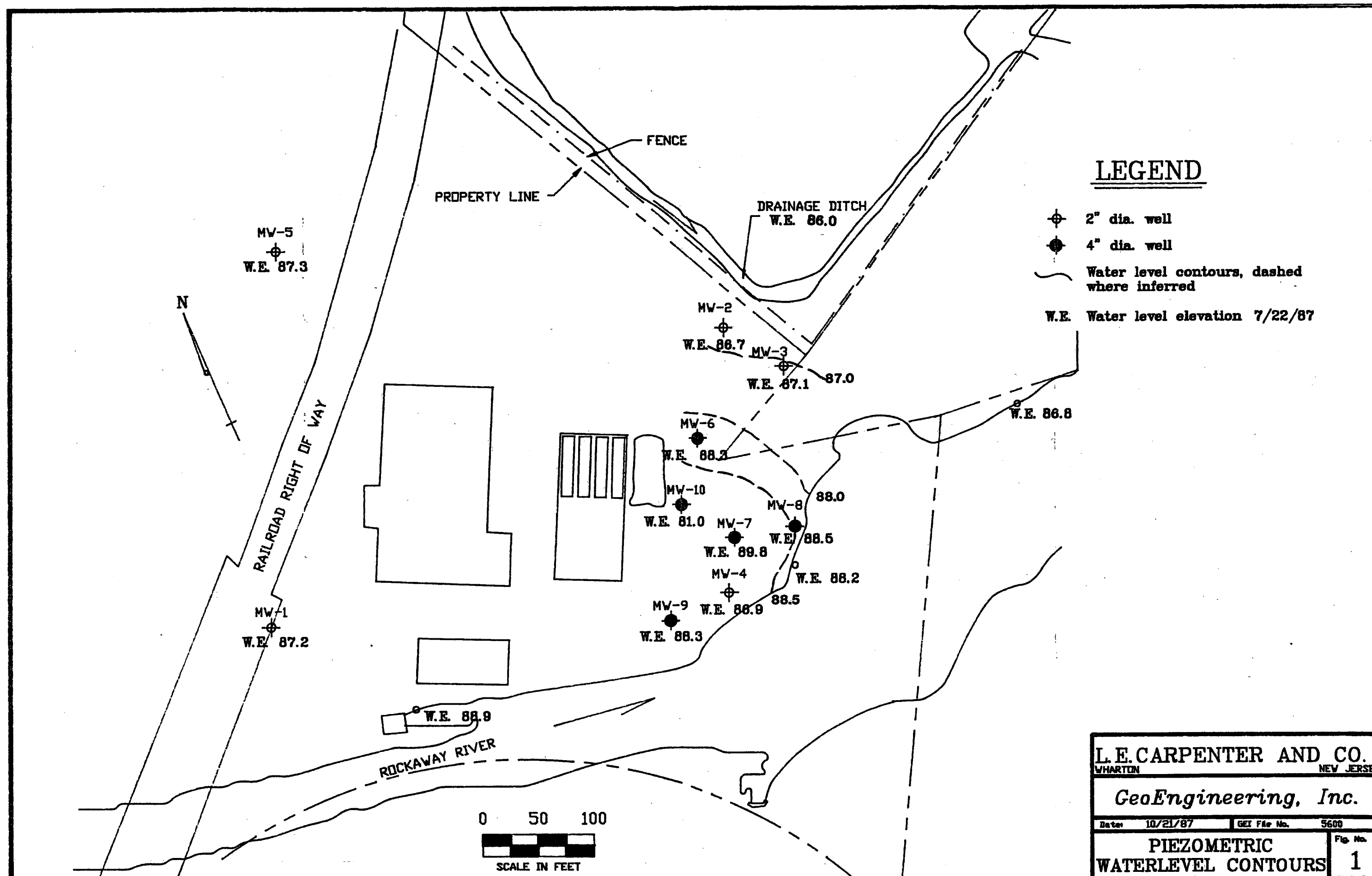
07/22/87

Well No.	Piezometric Surface Elevation	Floating Solvent Elevation	Measured Solvent (MW) Thickness (ft.)	Calculated Solvent Thickness in Soil
1	87.2 (1)	87.5	1.1	0.18
2	86.7 (1)	87.0	0.85	0.14
3	87.1 (1)	87.6	1.68	0.27
4	86.9 (1)	87.1	0.6	0.10
5	87.3 (1)	no solvent	0.00	0.00
6	88.3 (2)	89.5	7.23	1.18
7	89.8 (2)	90.6	5.05	0.82
8	88.5	no solvent	0.00	0.00
9	88.3	no solvent	0.00	0.00
10	81.0 (2) *	82.1	6.17	1.00
DRAINAGE CHANNEL	86.0			
RIVER PT. 1	88.9			
PT. 2	88.2			
PT. 3	86.8			

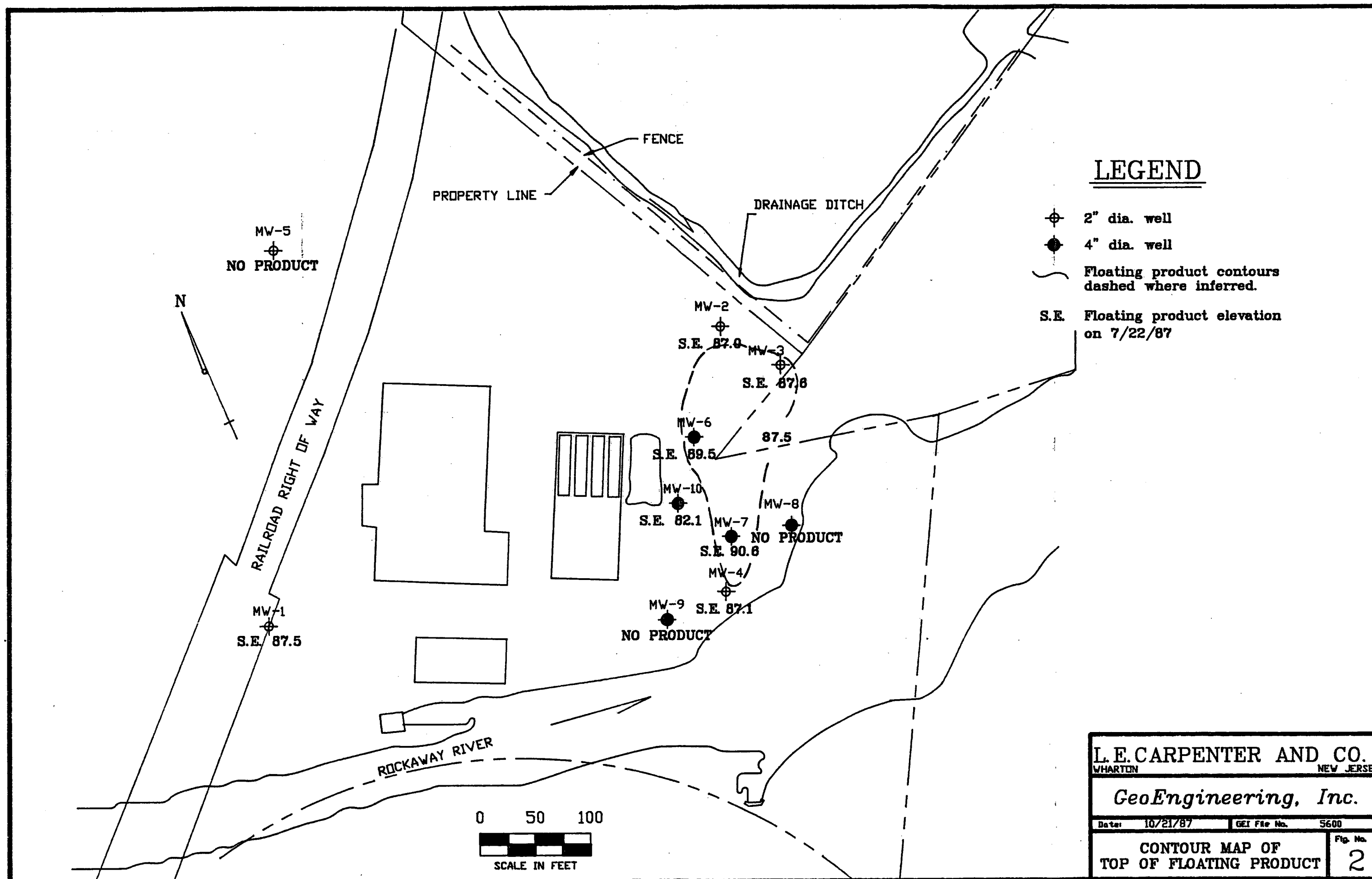
(1) Depth-to water measured inside the GEOMON Groundwater Sampler/Piezometer
(inlet screen is below solvent level)

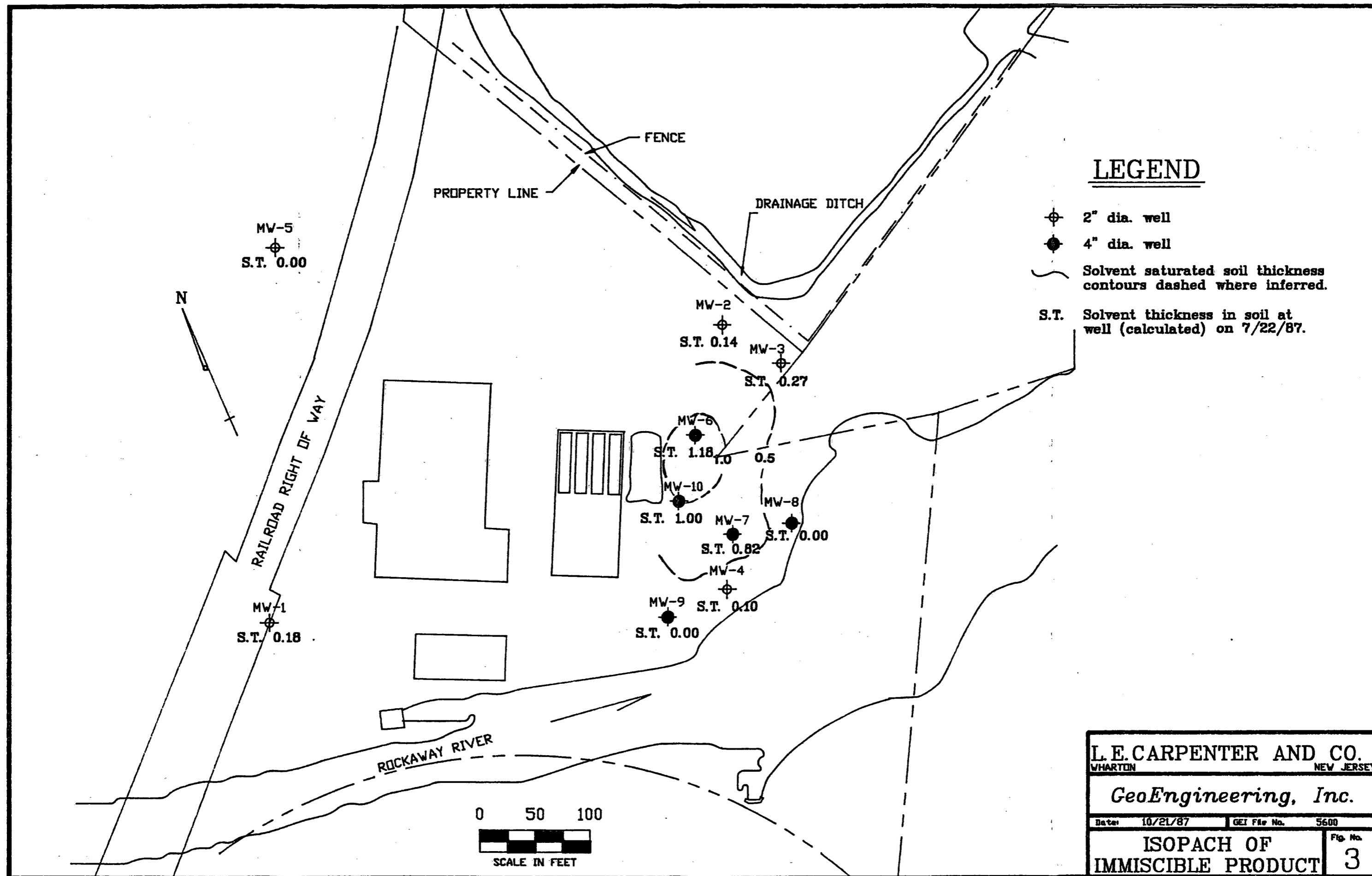
(2) Calculated piezometric surface, assuming solvent S.G. = 0.87

* - Anomalous reading not utilized in contour plotting on Figure 1



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WHARTON	NEW JERSEY	
GeoEngineering, Inc.		
Date: 10/21/87	GEI File No.	5600
PIEZOMETRIC WATERLEVEL CONTOURS		Fig. No. 1





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ISOPACH OF
IMMISCIBLE PRODUCT

Fig. No.
3

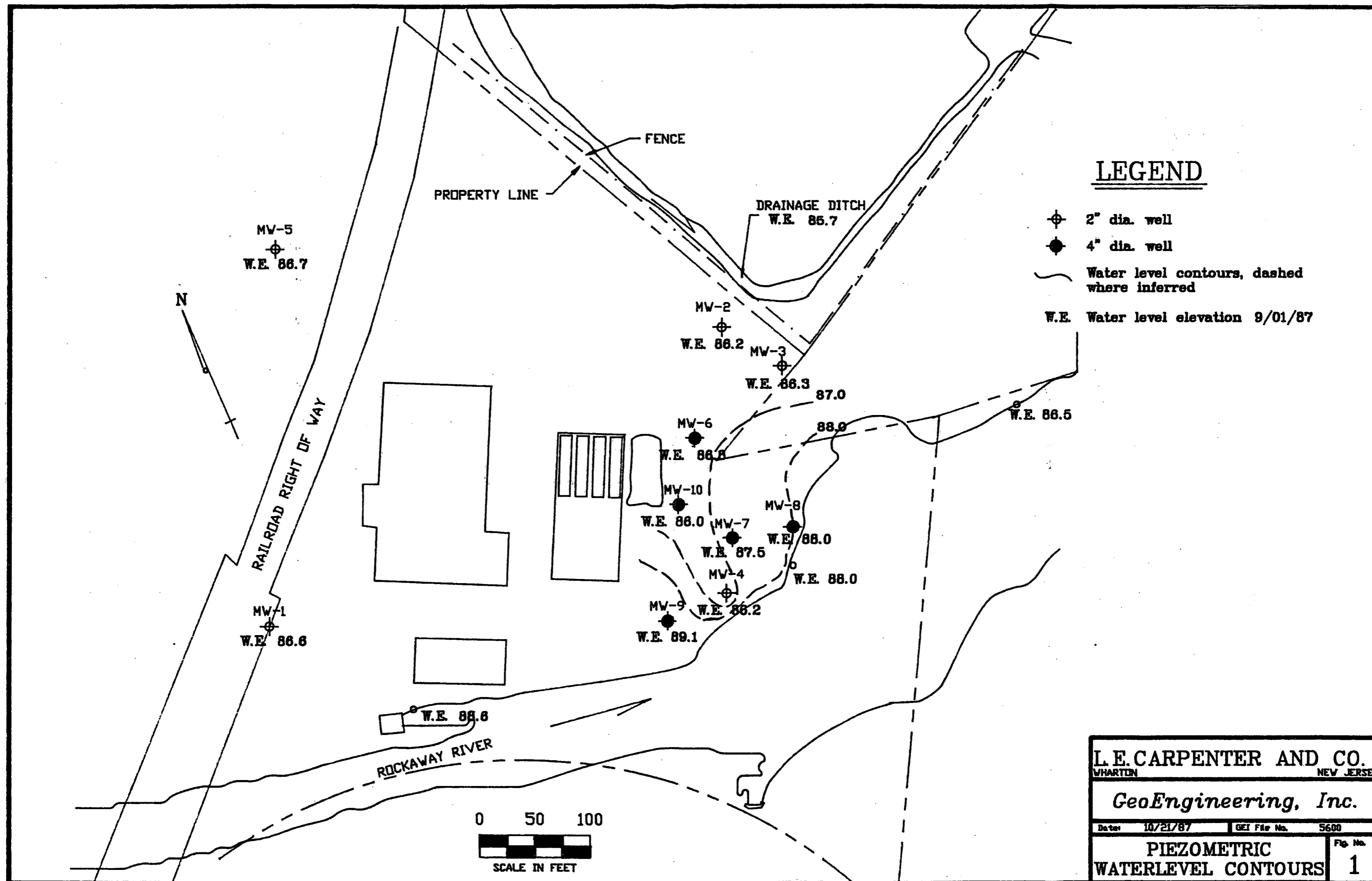
Table A
Solvent Thickness and Piezometric Elevations

09/01/87

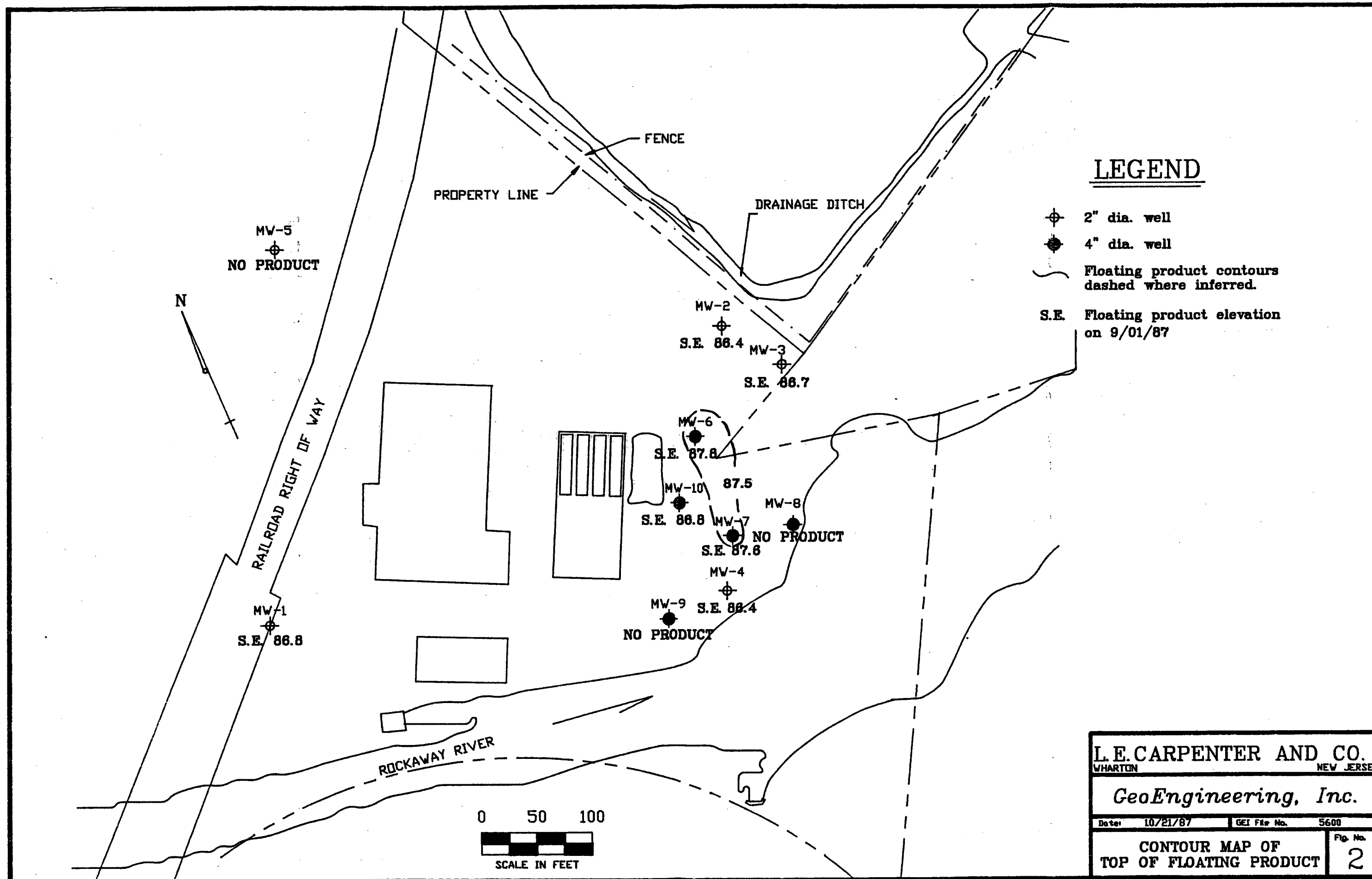
Well No.	Piezometric Surface Elevation	Floating Solvent Elevation	Measured Solvent (MW) Thickness (ft.)	Calculated Solvent Thickness in Soil
1	86.6 (1)	86.8	0.54	0.09
2	86.2 (1)	86.4	0.42	0.07
3	86.3 (1)	86.7	0.89	0.14
4	86.2 (1)	86.4	0.24	0.04
5	86.7 (1)	no solvent	0.00	0.00
6	86.8 (2)	87.8	5.91	0.96
7	87.5 (2)	87.6	0.33	0.05
8	88.0	no solvent	0.00	0.00
9	89.1	no solvent	0.00	0.00
10	86.0 (2)	86.8	4.76	0.77
DRAINAGE CHANNEL	85.7			
RIVER PT. 1	88.6			
PT. 2	88.0			
PT. 3	86.5			

(1) Depth to water measured inside the GEOMON Groundwater Sampler/Piezometer
(inlet screen is below solvent level)

(2) Calculated piezometric surface, assuming solvent S.G. = 0.87



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PIEZOMETRIC WATERLEVEL CONTOURS	
Fig. No. 1	



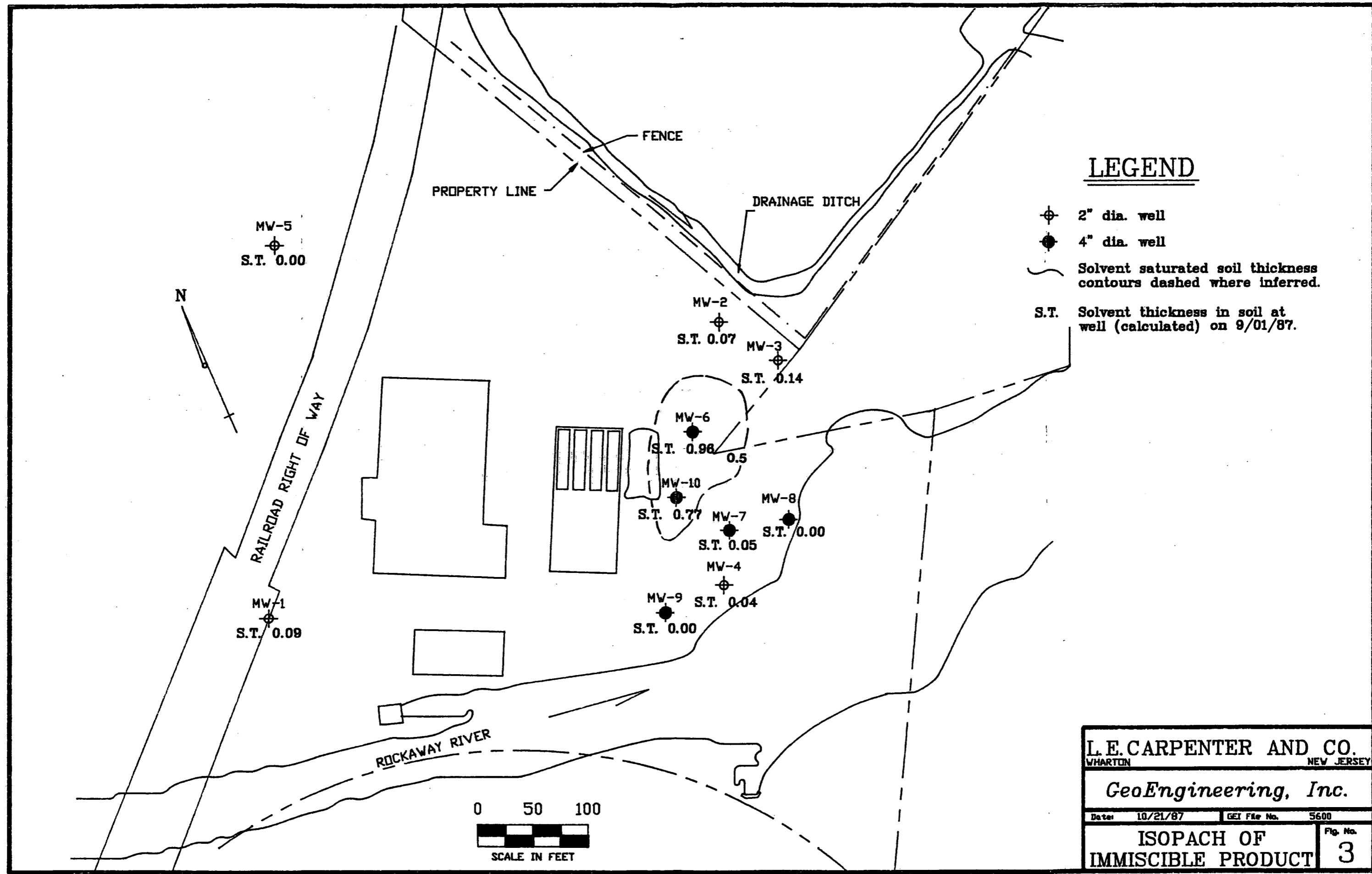


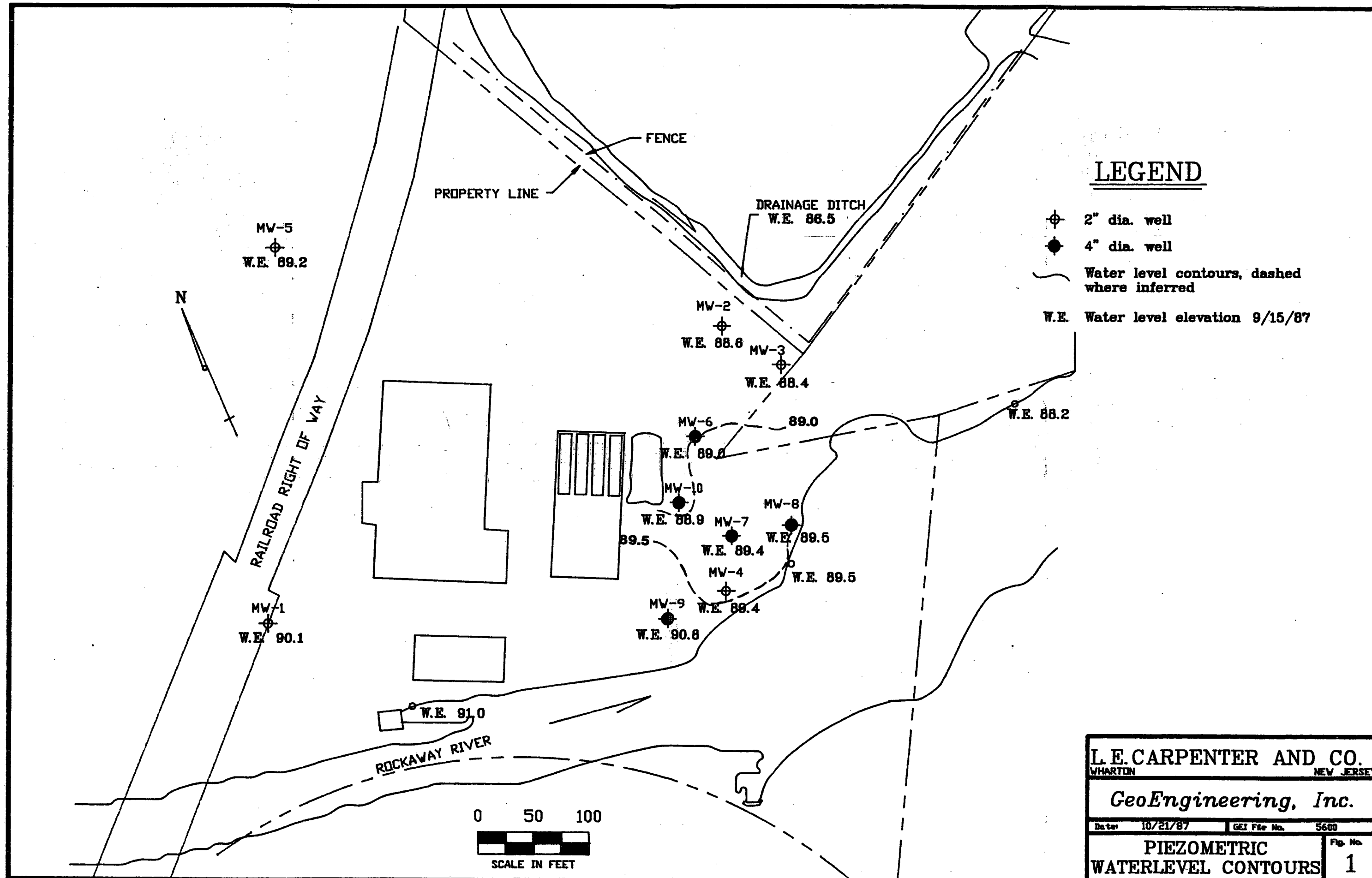
Table A
Solvent Thickness and Piezometric Elevations

09/15/87

Well No.	Piezometric Surface Elevation	Floating Solvent Elevation	Measured Solvent (MW) Thickness (ft.)	Calculated Solvent Thickness in Soil
1	90.1 (1)	90.4	0.98	0.16
2	88.6 (1)	88.8	0.06	0.01
3	88.4 (1)	88.7	0.98	0.16
4	89.4 (1)	89.6	0.80	0.13
5	89.2 (1)	no solvent	0.00	0.00
6	89.0 (2)	89.3	1.89	0.31
7	89.4 (2)	89.5	0.65	0.11
8	89.5	no solvent	0.00	0.00
9	90.8	no solvent	0.00	0.00
10	88.9 (2)	89.2	1.57	0.26
DRAINAGE CHANNEL	86.5			
RIVER PT. 1	91.0			
PT. 2	89.5			
PT. 3	88.2			

(1) Depth to water measured inside the GEOMON Groundwater Sampler/Piezometer
(inlet screen is below solvent level)

(2) Calculated piezometric surface, assuming solvent S.G. = 0.87



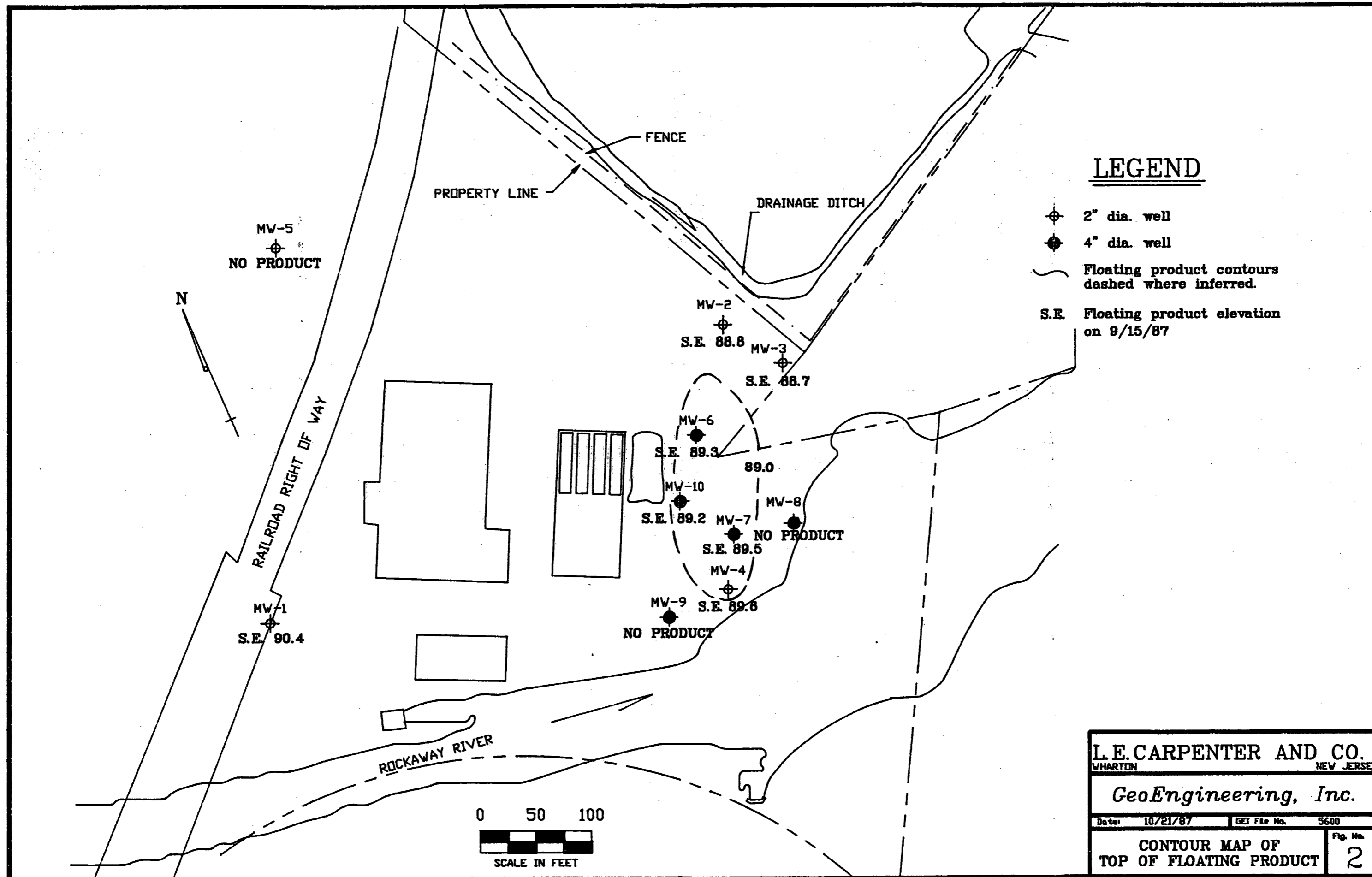
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PIEZOMETRIC
WATERLEVEL CONTOURS

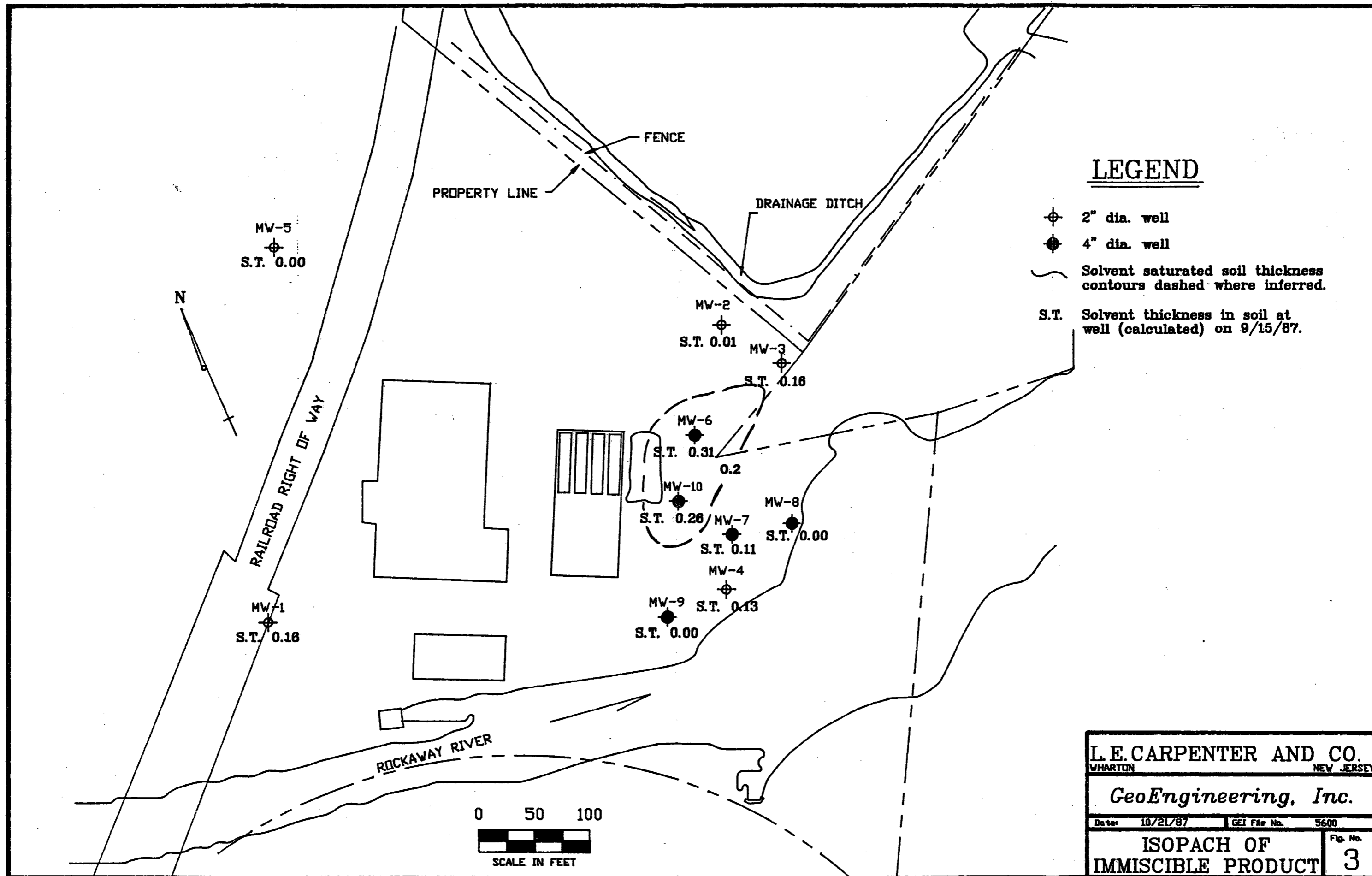
Fig. No.
1



LEGEND

- ⊕ 2" dia. well
- 4" dia. well
- Floating product contours dashed where inferred.
- S.E. Floating product elevation on 9/15/87

L.E. CARPENTER AND CO. WHARTON NEW JERSEY		
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Date: 10/21/87	GEI File No. 5600	Fig. No. 2
CONTOUR MAP OF TOP OF FLOATING PRODUCT		



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Date: 10/21/87	GEI File No.	5600
ISOPACH OF IMMISCIBLE PRODUCT		Fig. No. 3